Attachment 7

Economic Assessment Matrix

Economic Assessment Matrix

Item	Initial Cost	Recurring Cost	Comments
1) Switch Triggering - What costs are associated with developing/deploying any new switch triggers required (e.g., AIN or IN?)			
2) What effect does this alternative have, in terms of cost, on the real-time capacity and/or memory requirements of either end office switches or AIN/IN SSPs if the following range of traffic is to ported numbers (10-40%)?			
3) What effect does this alternative have, in terms of cost, on the real-time capacity and/or memory requirements of tandem switches if the following range of traffic is to ported numbers (10-40%)?			
4) What additional switch feature development/ deployment costs are associated this alternative?			

Economic Assessment Matrix

Item	Initial Cost	Recurring Cost	Comments
9) What (if any) additional SCPs are required for this alternative? What are the network costs if the following range of traffic is to ported numbers (10-40%)Assume 100% of NPA-NXXs are portable.			
10) What additional interoffice facilities are required for this alternative? What are the network costs if the following range of traffic is to ported numbers (10-40%)? Assume 100% of NPA-NXXs are portable.			
11) What changes are required to the 911 infrastructure for this alternative? What costs are associated with these changes?			
12) What is the effect, in terms of cost, of this alternative on the Operator Service infrastructure (e.g., BLV) for this alternative? (Do not include changes to billing systems)			

Attachment 8

Vendor Switch Software Availability Materials

Based on the attached matrix please send to me by FAX (415-442-2357), no later than January 22, the switch software availability for each of the switch types that you have installed in California. I have attempted to be as complete as possible in determining types of equipment installed in California, however, if I have missed a particular model installed in California, that your company supplies, please correct the list as appropriate. If your company has no plans to develop software for a particular LNP architecture, please so indicate. If your company has no plans to develop software for a particular LNP architecture for a particular switch type, please indicate that too. If your company wants to include any caveats in its report to the Task Force, they are also welcome.

Finally, we also need a brief description of each of your switch types. While some of us on the Task Force are familiar with some of your switch types, we are not familiar with all of the different manufacturer switch types. It is our intent to include in our report to the Commission descriptions of the switch types provided to us by the manufacturers. This description should be a short written description, not a brochure.

Your cooperation is appreciated and will add to the accuracy of the Task Force LNP report to the Commission. If you have any questions, please contact me at 415-442-2740.

Sincerely,

Patricia L. vanMidde
State Regulatory Manager
California Local Number Portability Task Force Co-Chair

cc: W. Traylor
J. Abercrombie

Attachment

RTP SWITCH SOFTWARE AVAILABILITY

Switch Type	Availability Date
DMS 100	
DMS 10	
5E	
4E	
GTD	

NON-GEOGRAPHIC NUMBER SWITCH SOFTWARE AVAILABILITY

Switch Type	Availability Date
DMS 100/200	
5E	
1A	
4E	
DMS 10	
GTD	

Ericsson Inc.

TELEFAX TRANSMITTAL

Date: January 22, 1996
Number of Pages including Cover Sheet: 2
(Continuation of 50 page document)

TO: Patricia L. VanMidde
State Regulatory Manager
California Local Number
Portability Task Force Co-Chair

Phone: _____

FAX Phone: 415-442-2357

From:
Amy H. Johnson
Product Manager

Phone: 214 / 997-1288

FAX Phone: 214 / 997-4994

REMARKS:

1010 Arapaho Road
Richardson, Texas 75081

NORTEL
NORTHERN TELECOM

Date: 1/22/96

To: Pat VanMidde

From: Susan Briner

Fax Number: (415) 442-2357

Pages to Follow: 2

2221 Lakeside Blvd., MS C1121
Richardson, Texas 75082-4399

Fax # 214/684-3882 or ESN 444-3882

Notes:

Switch Type	*Planned Availability Date*
DMS-10	2Q99*
DMS-100	4Q98*
DMS-200	4Q98*

Switch Definitions:

DMS-100: Class 5 central office switch capable of supporting in excess of 100,000 lines. This is a fully featured switch that supports SS7, AIN, ISDN, CLASS, Centrex, etc.

DMS-10: Class 5 central office switch suitable for applications less than 12,000 lines. The DMS-10 supports custom calling and CLASS features, SS7, and centrex. Limited feature sets for AIN and ISDN will be supported in the future.

DMS-200: Class 4 toll/tandem switch for the LEC market.

DMS-250: Class 1,2,3, or 4 toll/tandem switch for the interexchange carrier market.

DMS-500: A combination of DMS-100, DMS-200, and DMS-250 capabilities on a single hardware platform.

TOPS: Traffic Operator Position System is an application on the DMS-200 that provides complete operator services. The system is in wide use throughout the LEC market.

Please feel free to give me a call at (214) 684-5865 if you have any further questions.

Sincerely,

Susan Briner
Director, Network Services Marketing
Nortel

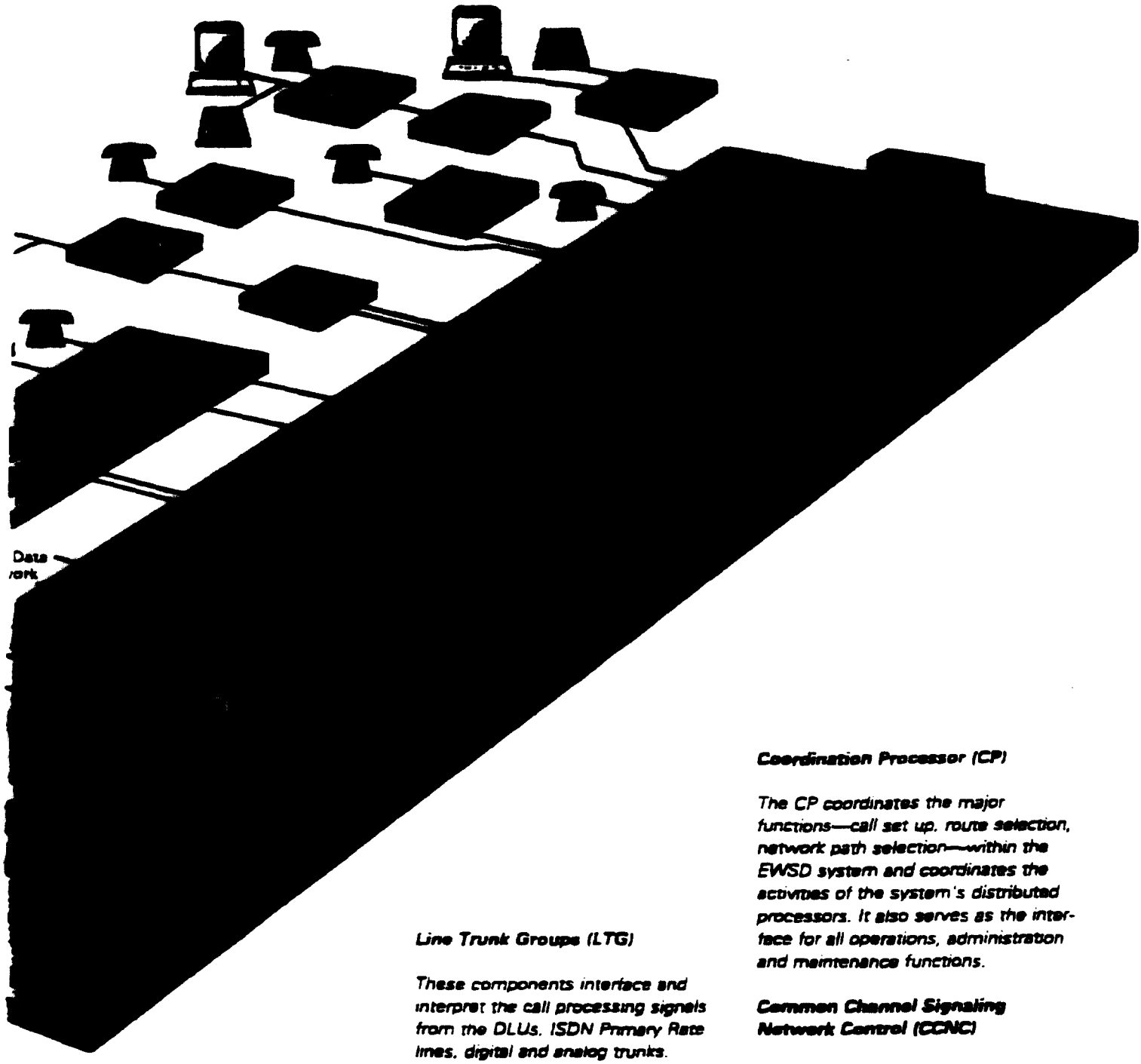
Attachment to Letter January 16, 1996

CPC SWITCH SOFTWARE AVAILABILITY

Switch Type	Availability Date
DMS 100	
DMS 10	
EWSD	4Q96
5E	
ERICSSON	
GTD	

LRN SWITCH SOFTWARE AVAILABILITY

Switch Type	Availability Date
5E	
1A	
4E	
DMS 100/200/500	
TOPS	
DMS 10	
DMS 250	
ERICSSON	
SIEMENS	2Q97
GTD	



Integrated Packet Handler (IPH)

The IPH performs the ISDN Packet Handler functions for all ISDN packet subscribers on the EWSD switch. As a result, ISDN subscribers can both originate and receive packet transmissions at their desktops, using National ISDN terminals.

Line Trunk Groups (LTG)

These components interface and interpret the call processing signals from the DLUs, ISDN Primary Rate lines, digital and analog trunks. They multiplex and control traffic to and from the Switching Networks.

Switching Network (SN)

The Switching Network supports the voice and data connections among the LTGs, and the signaling and control connections among the various subsystem processors.

Coordination Processor (CP)

The CP coordinates the major functions—call set up, route selection, network path selection—within the EWSD system and coordinates the activities of the system's distributed processors. It also serves as the interface for all operations, administration and maintenance functions.

Common Channel Signaling Network Control (CCNC)

This application module handles the transfer of SS7 signaling messages between the EWSD Service Switching Point (SSP), the network Signal Transfer Points (STP) and the Service Control Point (SCP). By separating call handling from network management, EWSD systems are capable of handling enormous growth in network services.

Attachment

Solution

CPC: 5ESS® Switch general availability is 1Q97. This is a revised availability date based on discussions concerning using LRN capabilities for a CPC application. This is dependent on technical assumptions and assumes no CPC specific development or modification for the 5ESS Switch beyond LRN.

LRN:	5ESS Switch Planned General Availability	- 1Q97
	1A ESS™ Switch Planned General Availability	- 2Q97*
	4ESS® Switch Planned General Availability	- 2Q97*
RTP:	5ESS Switch Planned General Availability	- 4Q97**
	4ESS Switch Planned General Availability	- 4Q97**
GTE (Number Change)		
	Possible General Availability	- 1H98

*Contingent on customer business arrangements

**Contingent on requirements being stable 2/15/96 and customer business arrangements

Attachment 9

CPC to LRN Draft Transition Sequence Overview

Attachment 10

LNP Status in Various States

Maryland

The Industry Consortium in Maryland unanimously selected LRN as the long-term architecture for LNP. Maryland has set up essentially the same committees as Illinois to pursue billing, operational, and number administration issues. In general, activities in Maryland follow the Illinois approach. The participants review Illinois results; modify if necessary, and adopt them for Maryland.

Maryland established a Legal Committee to determine what form an entity should take to create a local Number Portability Administration Center ("NPAC") to administer ported numbers. A partnership structure has been selected for this entity. The Legal Committee composed of counsel from each service provider, has also investigated whether any potential antitrust concerns could result from service providers partnering to form an entity to oversee the Service Center. No problems were found. The Legal Committee has also formulated bidding requirement safeguards to insure that a bidder to operate the Service Center meets the definition of a neutral third party. An RFP for operation of the NPAC is expected to be issued second quarter 1996.

While work in other related areas is proceeding, the primary focus of the participants at this time is cost recovery.

New York

The State of New York Department of Pubic Service ordered that a LNP trial be conducted starting February 1996, lasting for about six months. A trial in Manhattan of CPC is now underway. Some undesirable feature interaction problems in existing vendor switch software were discovered. This may preclude progressing to using live traffic in the trial.

The State of New York Department of Public Service ordered implementation of LRN as the permanent LNP Portability solution for the state of New York. Working committees on billing, cost recovery, and operations, similar to those in other states, are now being formed.